
HAN ZHENG

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EDUCATION

École Polytechnique Fédérale de Lausanne PhD candidate in Computer Science Supervisor: Prof. Mathias Payer	<i>2023 Aug - Now</i>
University of Chinese Academy of Science M.E. in Electronic Information Engineering	<i>2020 Aug - 2023 Jun</i>
Xidian University B.E. in Information Countermeasure Technique	<i>2016 Aug - 2020 Jun</i>

EXPERIENCE

École Polytechnique Fédérale de Lausanne Visiting Student in HexHive. Supervisor: Prof. Mathias Payer	<i>2021 Dec - 2022 Dec</i>
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PROJECTS

FishFuzz: Catch Deeper Bugs by Throwing Larger Nets Boosting the Multi-Target Directed Greybox Fuzzing by improving the precision of distance calculation and dynamically adjusting target priority. FishFuzz found 38 CVEs in exhaustively tested programs.  FishFuzz ('s extension) won 2nd Place in SBFT'24.	<i>USENIX Sec'23</i>
MendelFuzz: The Return of the Deterministic Stage Analyzing the key limitation of the deterministic stage in Greybox Fuzzing, further improves the deterministic stage by skipping redundant mutations. MendelFuzz proposes a new deterministic stage with higher efficiency than the havoc stage, and outperforms AFL++ both in coverage and bug findings.  MendelFuzz became the default mode in AFL++.	<i>FSE'25</i>

AWARDS AND SCHOLARSHIPS

Google Cloud Research Credit , 500 CHF, Google	<i>2025 Jun</i>
Chromium Vulnerability Reward Program (2024) , 25,000 USD, Google	<i>2025 Jan</i>
SBFT FuzzBench Competition 2nd Place , 300 EUR, Google	<i>2024 Apr</i>
EDIC PhD Fellowship , 54,000 CHF, EPFL	<i>2023 Sep</i>
IC Master Scholarship , 22,400 CHF, EPFL	<i>2021 Dec</i>
Visiting Scholarship , 23,400 CHF, China Scholarship Council	<i>2021 Dec</i>

BUG HUNTING

Google Leaderboard Ranking: #42 in Google VRP 2024
VSCode: CVE-2025-32726 (AzureDataStudio, High)
ChromeOS: CVE-2025-2509 (Virglrenderer, Medium)
Chrome: CVE-2025-0438 (Tracing, High), CVE-2025-0436 (Skia, High), b/365802556 (Blink, High), CVE-2024-7968 (UI, High), b/349253666 (UI, Medium), CVE-2024-5846 (PDF, Medium), CVE-2024-5847 (PDF, Medium), CVE-2024-7018 (PDF, Medium)
Wireshark: CVE-2024-0209, CVE-2024-0210
Apple Font: CVE-2022-26981, CVE-2022-31783

SERVICE

Technical Program Committee: ISSTA'26 (CCF-A), FUZZING'26, ASE'25 (CCF-A), FUZZING'25
Journal Reviewer: TSE (CCF-A), TOSEM (CCF-A), TIFS (CCF-A)
Shadow TPC: NDSS'24 (CCF-A), ISSTA'24 (CCF-A)

SKILLS

Coding: C, Python, gdb, LLVM, AFL/AFL++, Docker
Languages: Chinese (Mother Tongue), English (IELTS 7.0)

SUPERVISE / MENTOR

Zurab Tsinadze, Quantifying Performance Variation: A Prudent Practice in Fuzzing Benchmark Construction, Master Thesis. *2025 Jun*
Zezhong Ren, Sysphuzz and the pressure of more coverage, NDSS'26. *2025 Aug*

TEACHING

MAN, Le cours de mise à niveau, (24 Spring) *Teaching Assistant*
COM-402, Information Security and Privacy, (24 Fall, 25 Fall) *Teaching Assistant*
CS-412, Software Security, (25 Spring) *Teaching Assistant*

INVITED TALKS

Research Seminar at HKUST, Hong Kong Hosted by Prof. Dongdong She *2025 July*
Research Seminar at Tsinghua University, Beijing Hosted by Prof. Chao Zhang *2025 July*
ESEC/FSE'25, Trondheim MendelFuzz presentation *2025 June*
SBFT24@ICSE, Lisbon FuzzBench competition report *2024 Apr*
Research Seminar at HUST, Wuhan Hosted by Prof. Wei Zhou *2023 June*

PUBLICATIONS

- [5] Zhezhong Ren, **Han Zheng**, Zhiyao Feng, Qinying Wang, Marcel Busch, Yuqing Zhang, Chao Zhang, and Mathias Payer. Sysphuzz and the pressure of more coverage. In *33rd Annual Network and Distributed System Security Symposium, NDSS*, 2026
- [4] **Han Zheng**, Flavio Toffalini, Marcel Böhme, and Mathias Payer. Mendelfuzz: The return of the deterministic stage. *Proceedings of the ACM on Software Engineering*, 2(FSE):44–64, 2025
- [3] **Han Zheng**, Flavio Toffalini, and Mathias Payer. Tunefuzz: Adaptively exploring target programs. In *Proceedings of the 17th ACM/IEEE International Workshop on Search-Based and Fuzz Testing*, pages 61–62, 2024
- [2] **Han Zheng**, Jiayuan Zhang, Yuhang Huang, Zezhong Ren, He Wang, Chunjie Cao, Yuqing Zhang, Flavio Toffalini, and Mathias Payer. {FISHFUZZ}: Catch deeper bugs by throwing larger nets. In *32nd USENIX Security Symposium (USENIX Security 23)*, pages 1343–1360, 2023
- [1] Zezhong Ren, **Han Zheng**, Jiayuan Zhang, Wenjie Wang, Tao Feng, He Wang, and Yuqing Zhang. A review of fuzzing techniques. 2021